

FIG 1. A

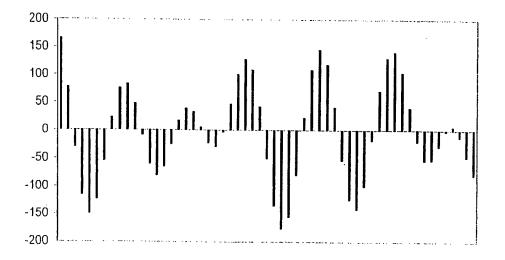


FIG 1. B

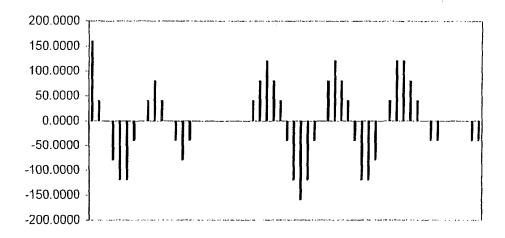


FIG 1. C

$$g(x)$$
 $c(n)\sqrt{\frac{2}{L}}\cos{x}$ $0.5)\frac{n\Sigma}{L}\approx$

where,

$$c(n) \quad \frac{1}{\sqrt{2}} \text{ for } n = 0$$

and.

$$c(n) = 1$$
 for all $n \zeta 0$

FIG. 1D

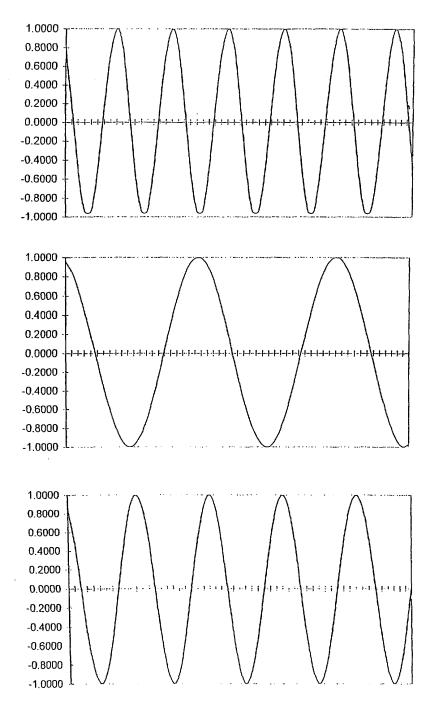


FIG. 1E

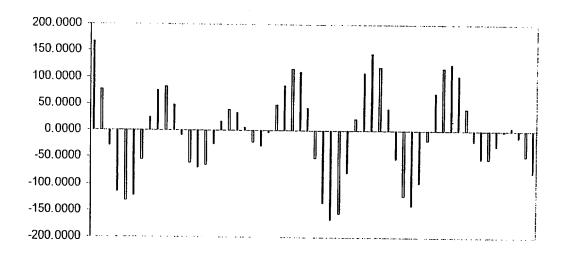


FIG 1. F

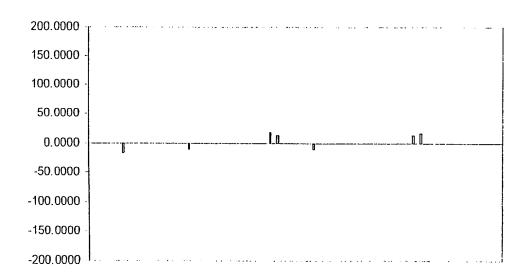


FIG 1. G

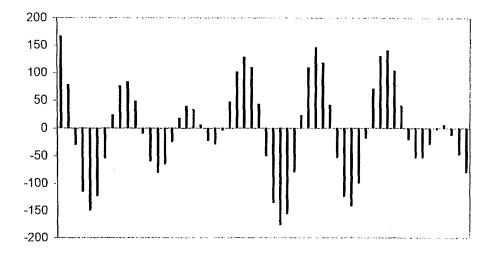


FIG 1. H

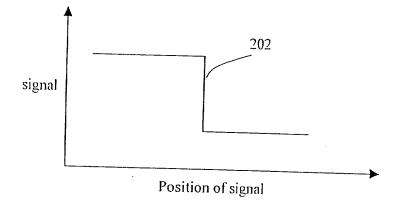


FIG. 2A

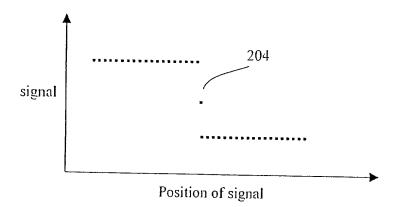


FIG. 2B

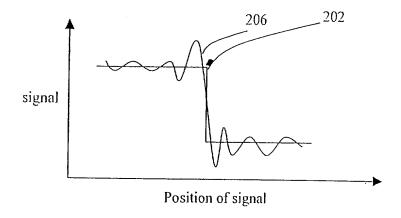


FIG.2C

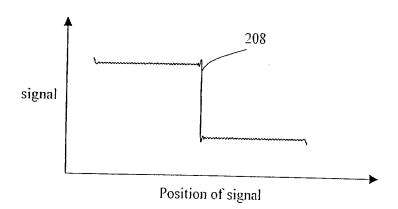
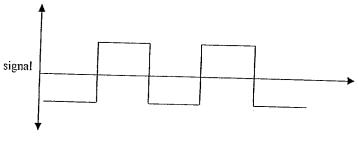
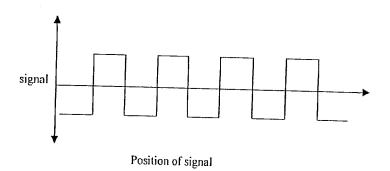


FIG.2D



Position of signal



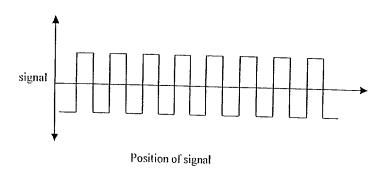


FIG.3

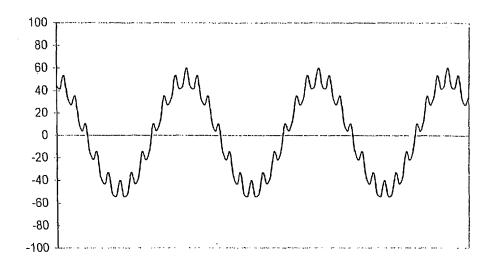
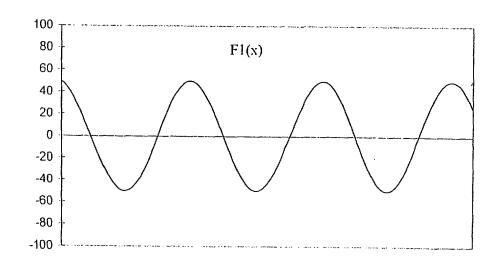


FIG.4A



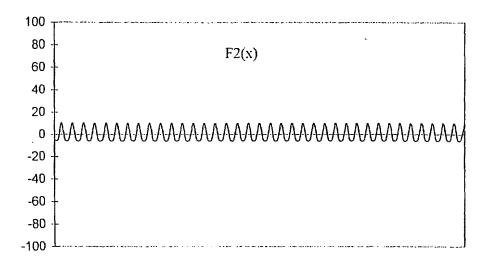
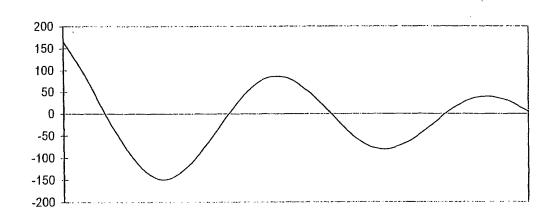
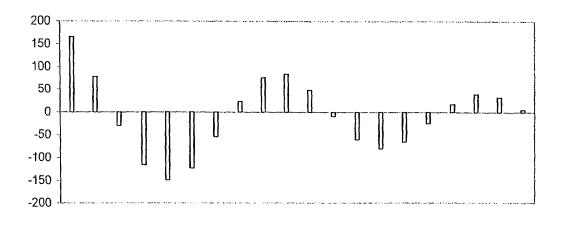
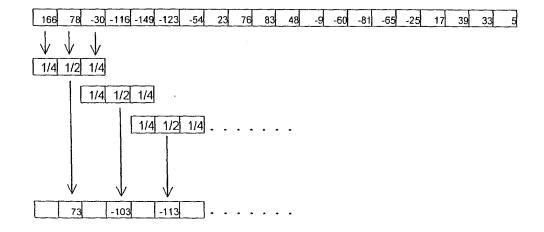
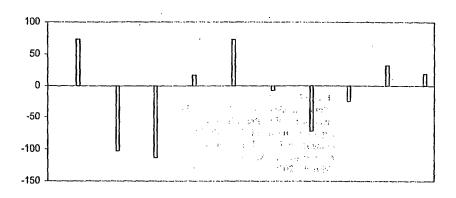


FIG.4C









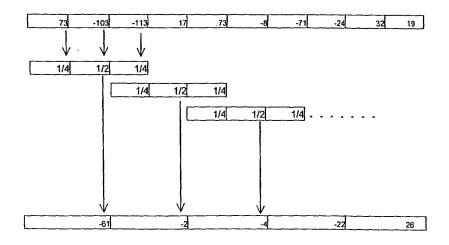


FIG.5C

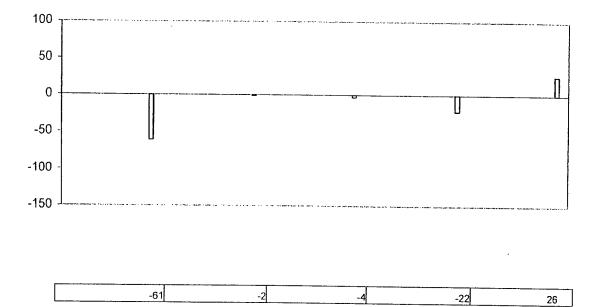
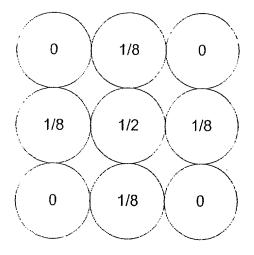


FIG.5D

78.3	81.5	79.9	73.7	64.1	52.5	40.5
81.5	88.2	90.0	86.5	78.3	66.7	53.5
79.9	90.0	95.6	95.6	90.0	79.9	66.7
73.7	86.5	95.6	99.5	97.5	90.0	78.3
64.1	78.3	90.0	97.5	99.5	95.6	86.5
52.5	66.7	79.9	90.0	95.6	95.6	90.0
40.5	53.5	66.7	78.3	86.5	90.0	88.2

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FIG. 6A



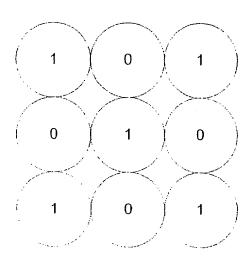
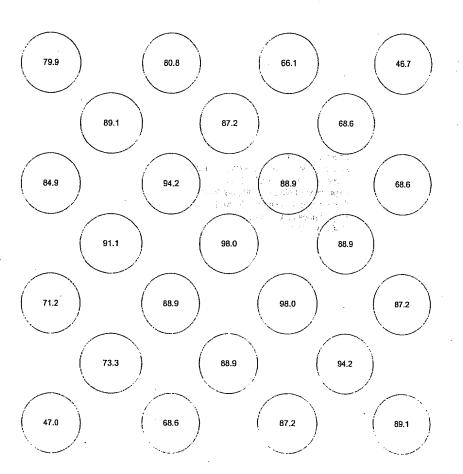


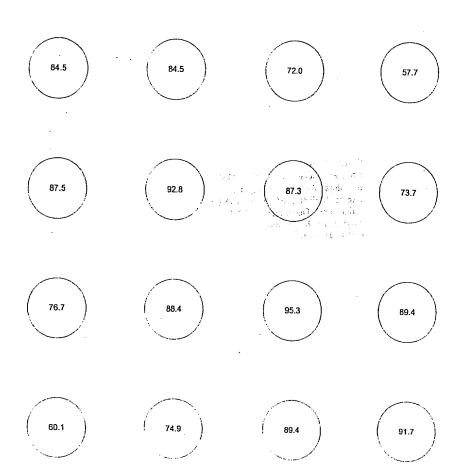
FIG. 6B



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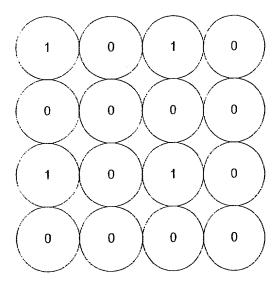
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FIG. 6C



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FIG. 6D



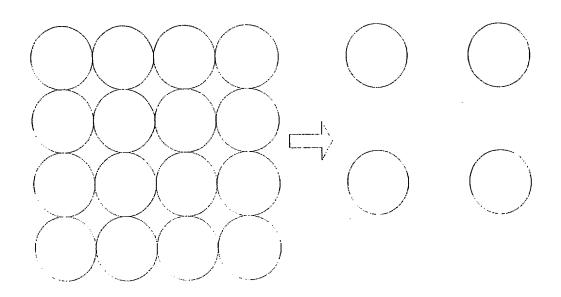
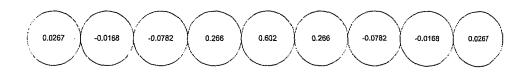
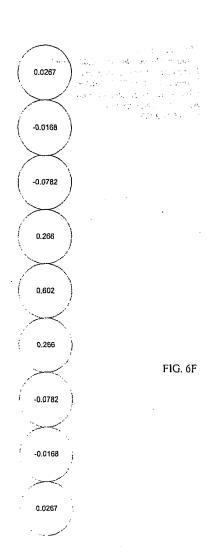
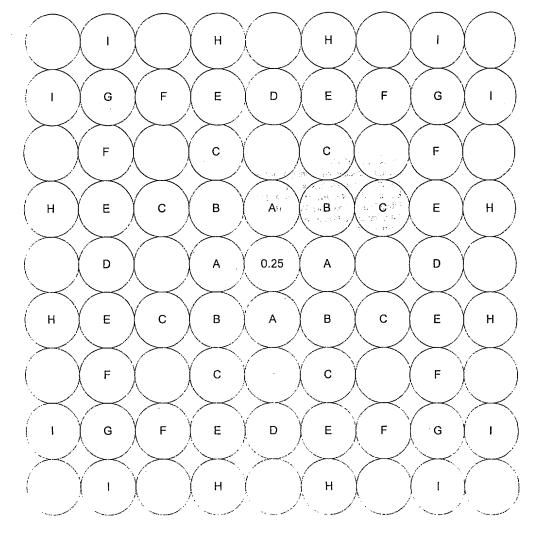


FIG. 6E







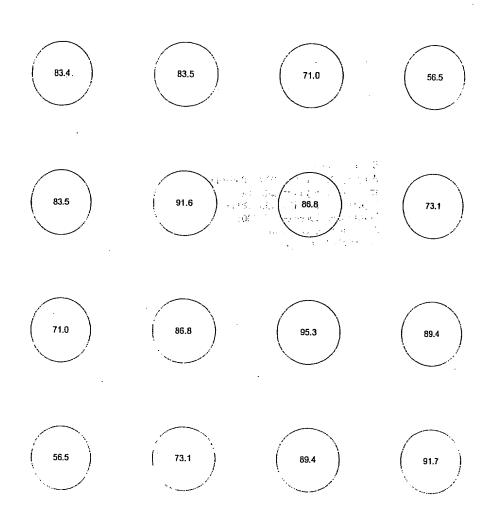
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FIG. 6G

 $A = 0.1609 \\ B = 0.0712 \\ C = -0.0208 \\ D = -0.0101 \\ E = -0.0045 \\ F = 0.0013 \\ G = 0.00028 \\ H = 0.00713 \\ I = -0.00045$

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FIG. 7A

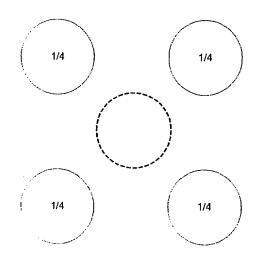


FIG. 7 B

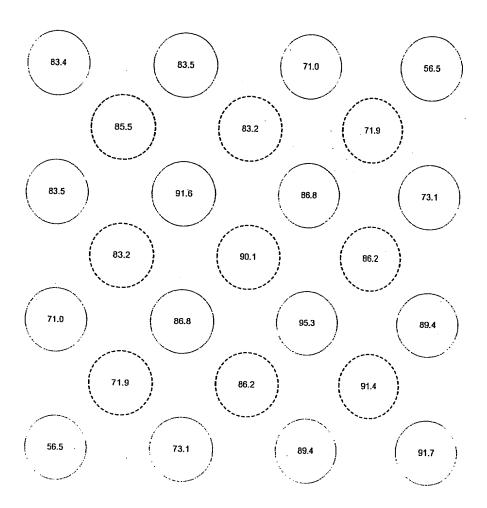


FIG. 7C

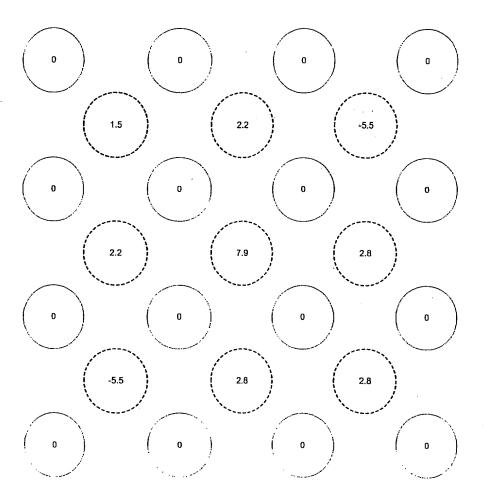


FIG. 7D

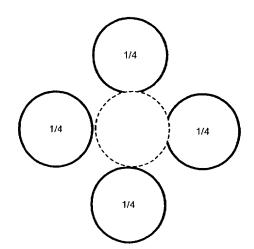


FIG. 7E

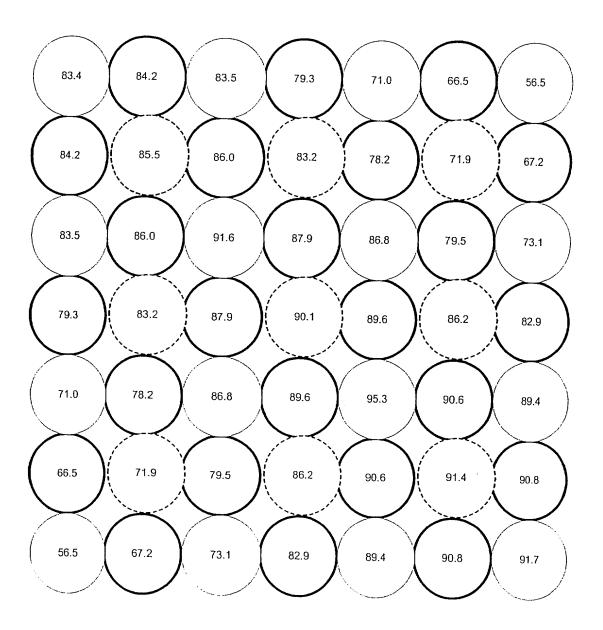


FIG. 7F

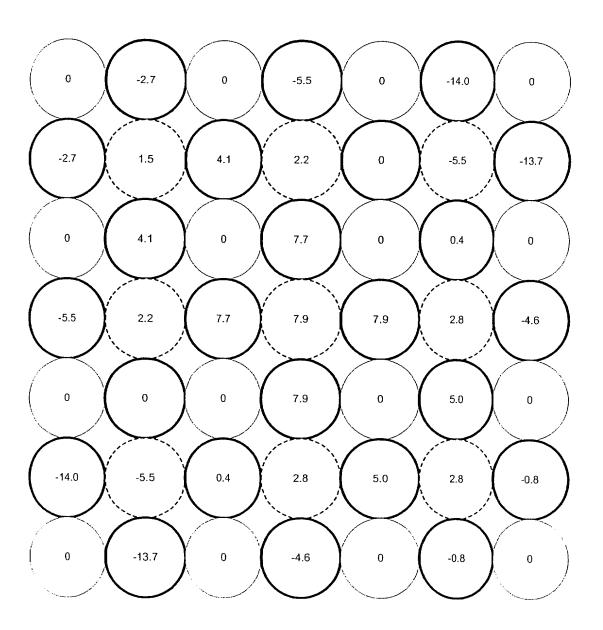


FIG. 7G

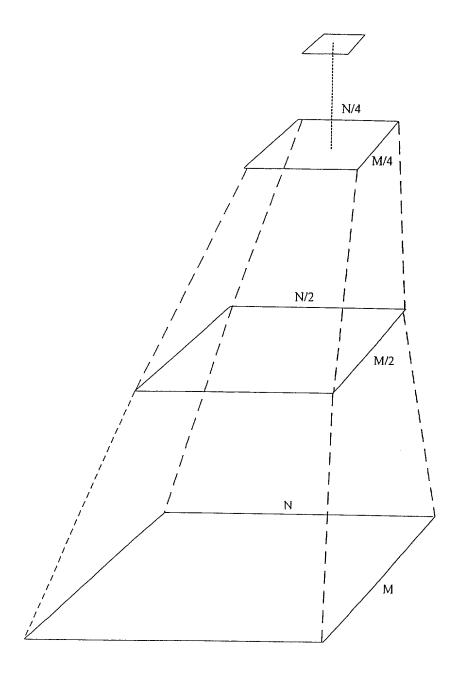


FIG. 8

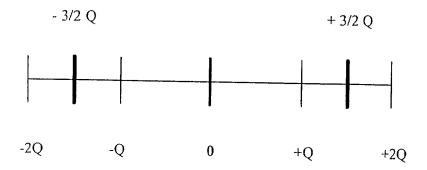
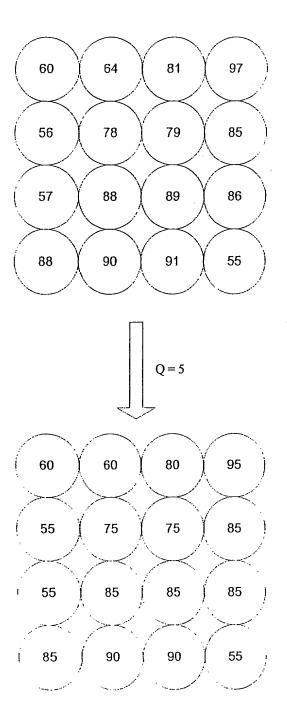


FIG. 9A



... ...

FIG. 9B

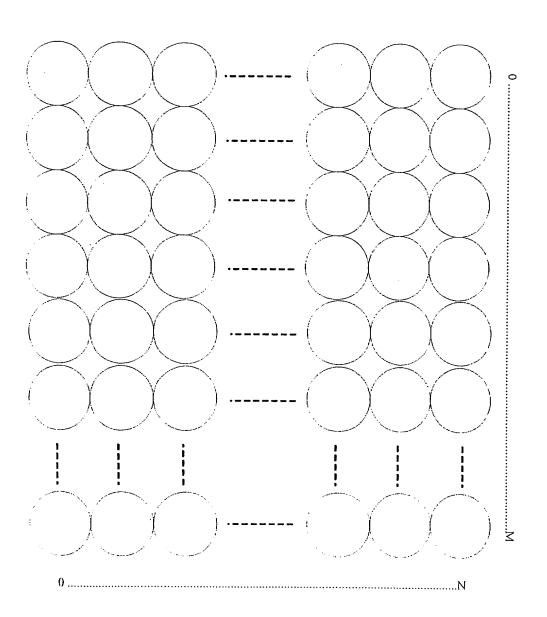


FIG. 10A

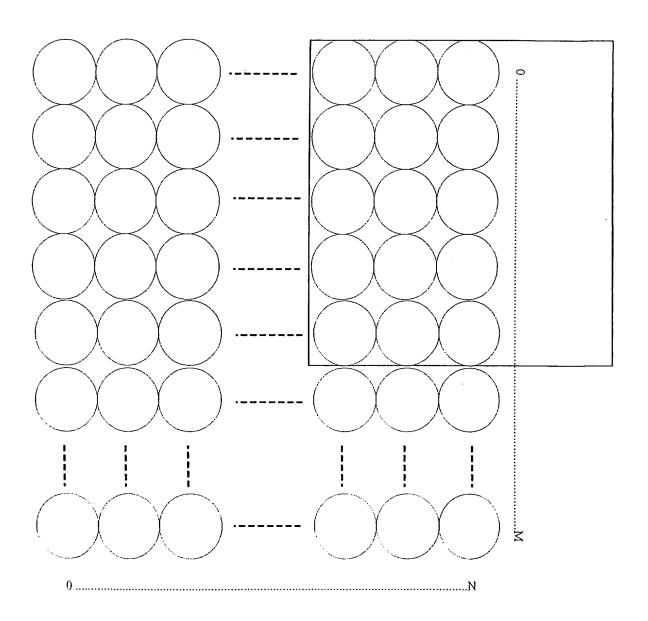


FIG. 10B

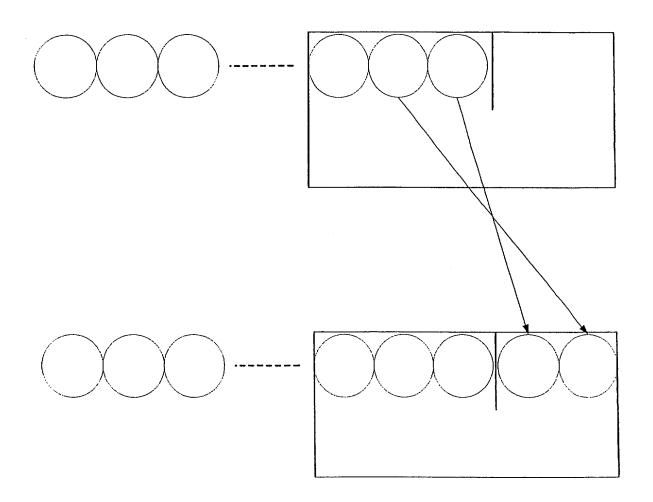


FIG. 10C

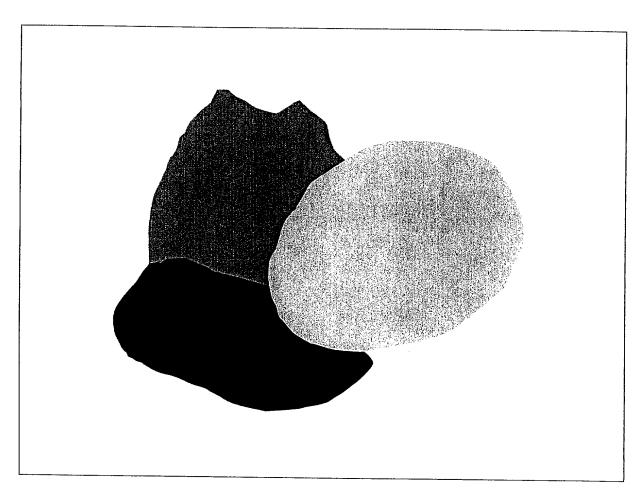
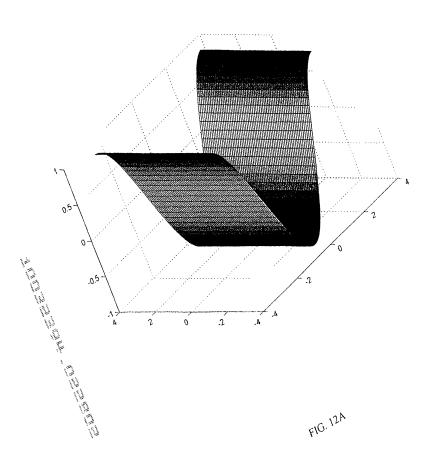


FIG. 11



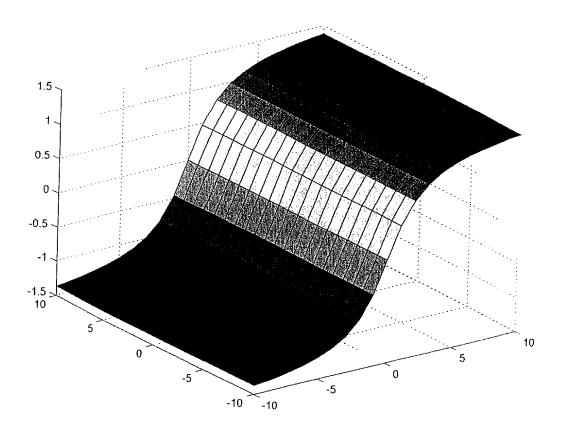


FIG. 12B

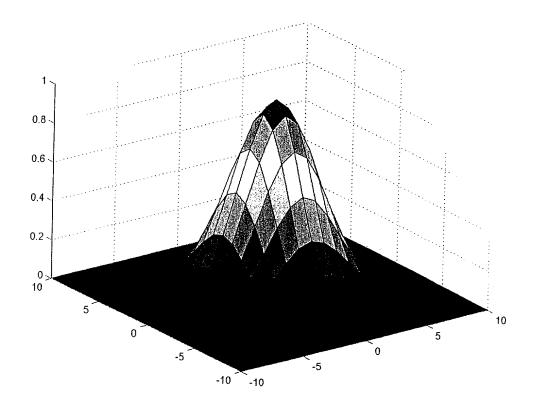


FIG. 12C

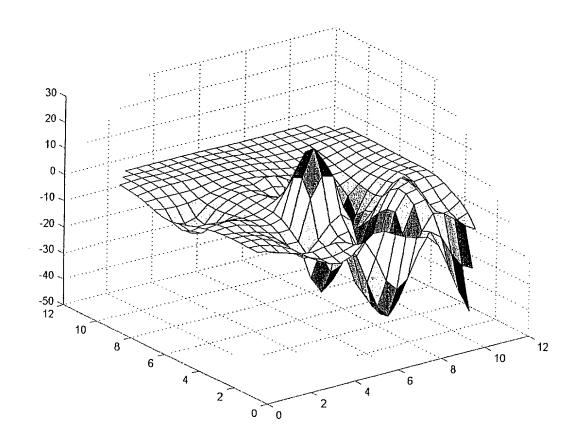


FIG. 12D



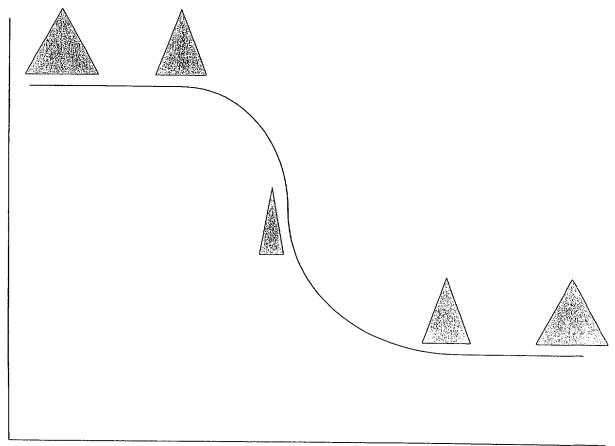


FIG. 13

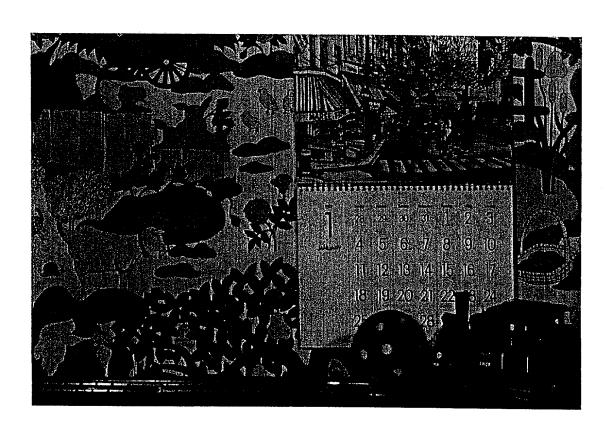


FIG. 14 A

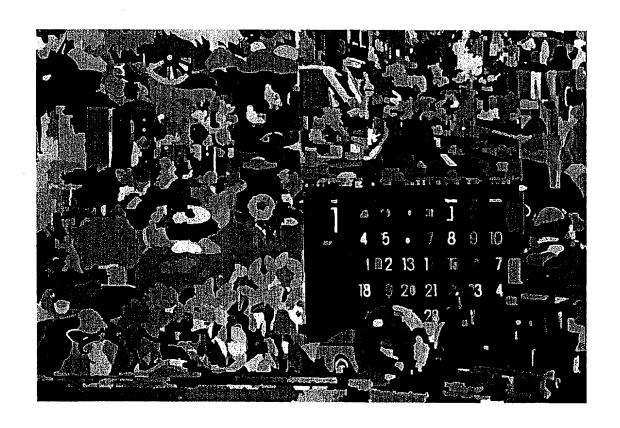
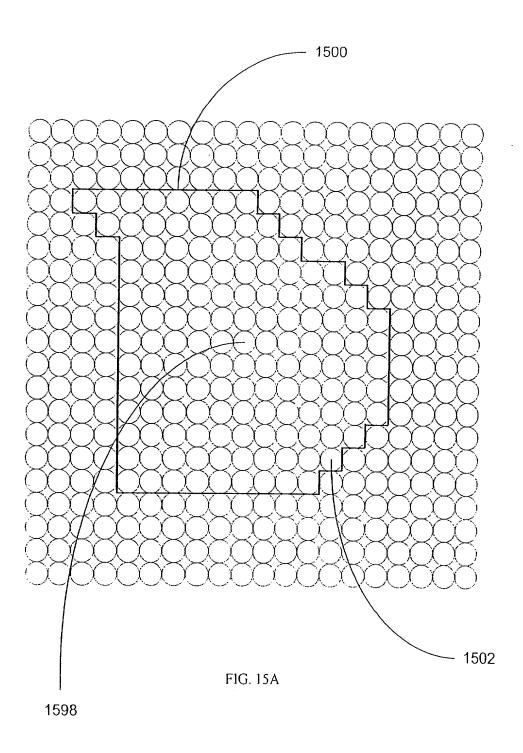
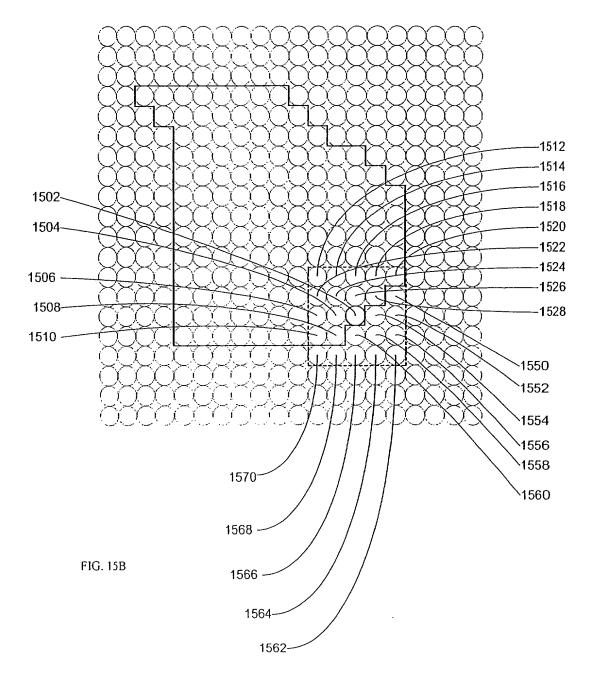


FIG. 14 B





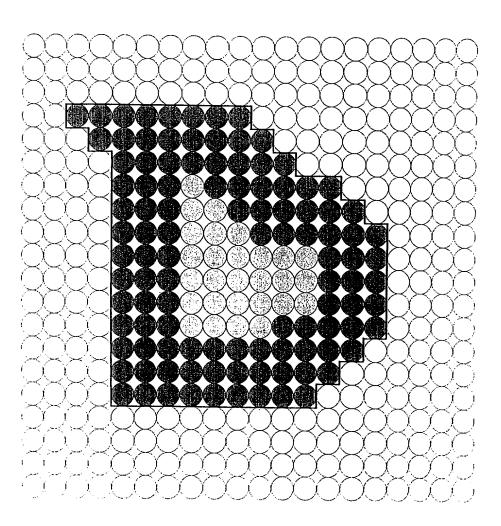
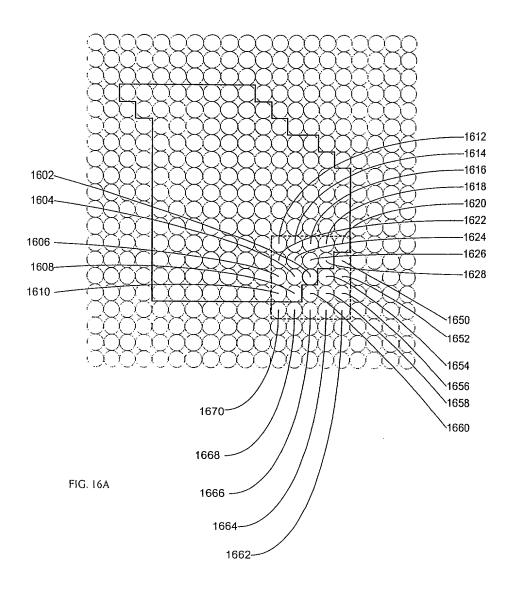


FIG. 15C



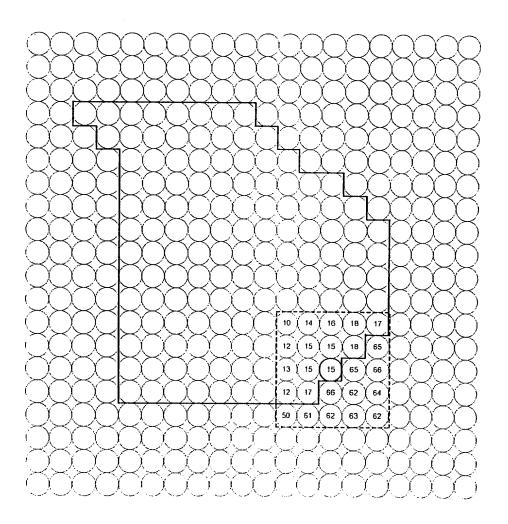


FIG. 16B

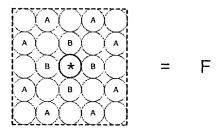
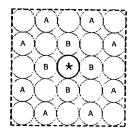


FIG. 16C

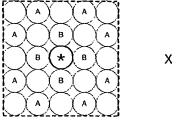




X 10 14 16 18 17 12 15 15 18 12 17 17 18 18

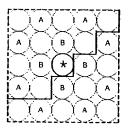
Value of pixel * = 5/16 (15+15) - 1/32 (14+18+12+12) = 7.62

A = -1/32. B = 5/16



10 14 16 18 17 12 15 15 18 65 13 15 15 65 66 12 17 66 62 64 50 61 62 63 62

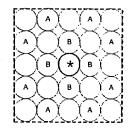
Value of pixel* = 5/16 (15+15+66+65) - 1/32 (14+18+65+64+63+61+12+12) = 40.65



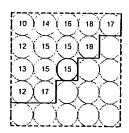
$$\Sigma$$
 weights inside = $5/16 + 5/16 - 1/32 - 1/32 - 1/32 - 1/32 = $1/2 \neq 1$
Diff = $1 - 1/2 = 1/2$$

FIG. 16F





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Replacement

Equation of 16D + Diff * (Median inside the segment) =

7.62 + 1/2 (15) = 15.12

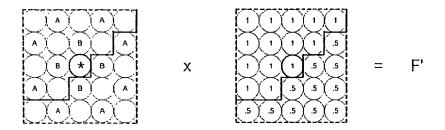
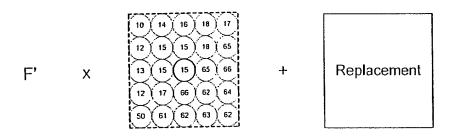


FIG. 16H



-1/32(14+18+12+12) + 5/16(15+15) + 1/2[-1/32(65+64+63+61) + 5/16(66+65)] + 1/2(15) = 31.64

59	37	20	
41	19		22
18		20	36
	17	37	63

FIG. 17A

18		18	44
41	19		22
43	17		17
21		19	42

FIG. 17B

	_		
	18	38	59
5	19	41	61
	17	43	56
	21	40	57

FIG. 17C